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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/035,376		11/01/2001	Gerald E Schneider	MTZ-199CPCPACN	2506	
959	7590	03/23/2004		EXAMINER		
LAHIVE & 28 STATE S		TELD, LLP.		GUCKER,	STEPHEN	
BOSTON, N)9		ART UNIT	PAPER NUMBER	
				1647		

DATE MAILED: 03/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

,			
	Application No.	Applicant(s)	
	10/035,376	SCHNEIDER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Stephen Gucker	1647	
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC. Edensions of time may be available under the provisions o after SIX (6) MONTHS from the mailing date of this commu- if the period for reply sepecified above, the maximum stat of the properties of the properties of the properties of the Failure to reply within the soft or extended period for reply wan ye reply received by the Office later than three months are made patent term adjustment. See 37 OFT 8.7.704(b).	CATION. 137 CFR 1.136(a). In no event, however, may a rejinication. Idays, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. 6. 433)	
Status		*	
1) Responsive to communication(s) filed	I on .		
,	b)⊠ This action is non-final.		
Since this application is in condition for closed in accordance with the practice.			
Disposition of Claims			
4) Claim(s) 1 is/are pending in the application of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction.	e withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the	Examiner.		
10) The drawing(s) filed on is/are:		y the Examiner.	
Applicant may not request that any object	tion to the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including to 11). The oath or declaration is objected to			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some c) None of: 1. Certified copies of the priority of 2. Copies of the certified copies of the priority of 3. Copies of the certified copies of application from the Internation * See the attached detailed Office action	locuments have been received. locuments have been received in Ap f the priority documents have been r all Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	e
Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PT) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date		immary (PTO-413) /Mail Date : ormal Patent Application (PTO-152) 	

Art Unit: 1647

DETAILED ACTION

 The disclosure is objected to because of the following informalities: Figure 2 is described in the specification as having parts A, B, and C, but the drawing of Figure 2 is labeled as E, F, and, G.

Appropriate correction is required.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for promoting axonal growth *in vitro* of neurons from transgenic mice, does not reasonably provide enablement for other means of promoting axonal growth. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The specification demonstrates that axonal growth in RGCs from transgenic mice (transfected with *bcl-2*) display axonal growth *in vitro*. However, the specification teaches negative results when the compound ZVAD was used to promote axonal growth by modulating the expression or bioactivity of a *bcl* family member. Given the negative working example, the claim is not commensurate with what is taught in the specification but is overly broad. It would require undue experimentation with no reasonable expectation of success, given the negative teaching

Art Unit: 1647

of the specification, to promote axonal growth other than by creating transgenic animals that express bcl-2 in their neurons in vitro.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. No actual process steps are recited for the claimed method, such as the administration of a composition, etc. Without such process steps, the metes and bounds of the claim are unclear, e.g. wouldn't eating a balanced diet as opposed to starvation modulate the expression of many genes, including at least one bcl family member, and therefore possible meet the claim limitations if normal axonal growth occurs?
- **5.** The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Quash et al. (US 5,744,499, "Quash"). Quash discloses compositions and methods for modulating

Art Unit: 1647

apoptosis including that which occurs in Alzheimer's disease, which produces "traumatic injury" to the nervous system which can be characterized as having diminished axonal growth due to cell pathology and loss (abstract, column 2, line 1, lines 53-65; column 4, lines 10-62; column 6, line 46 to column 7, line 50). Although Quash does not state that his methods will promote axonal growth, such growth would be an inherent feature of carrying out the process steps. The instant process steps are the same regardless of the intent of carrying out the process steps (*Ex parte Novitski*, 26 USPQ 1391).

- 7. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Reed et al. (WO 94/27426, "Reed"). Reed discloses methods using bcl-2 for the therapeutic treatment and prevention of diseases, including neurodegenerative diseases (abstract; page 5, line 25; page 11, lines 2-18; page 16, lines 10-19; page 17, line 4 to page 18, line 27; page 20, lines 10-15; page 33, lines 10-27; and claims 1-5 and 8).
- 8. No claim is allowed.
- Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technical Center 1600 general number which is (571) 272-1600.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gucker whose telephone number is (571) 272-0883. The examiner can normally be reached on Monday to Friday from 0930 to 1800. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Art Unit: 1647 .

supervisor, Gary Kunz, can be reached at (571) 272-0887. The fax phone number for

this Group is currently (703) 872-9306.

Stephen Gucker

March 22, 2004

GARY KUNZ

UPERVISORY PATENT EXAMINE TECHNOLOGY CENTER 1600